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WATER REPORTING AMENDMENTS

2022 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Joel Ferry

▶ to the Division of Water Rights -- Water Rights Administration, as a one-time



This bill appropriates in fiscal year 2023:

20	арргорпацоп.
27	• from the General Fund, One-time, \$230,000.
28	► to the Division of Water Rights Water Rights Administration, as an ongoing
29	appropriation:
30	• from the General Fund \$150,000.
31	Other Special Clauses:
32	None
33	Utah Code Sections Affected:
34	AMENDS:
35	73-2-1, as last amended by Laws of Utah 2020, Chapters 60 and 352
36	ENACTS:
37	73-2-1.7 , Utah Code Annotated 1953
38	73-5-17, Utah Code Annotated 1953
39	
40	Be it enacted by the Legislature of the state of Utah:
41	Section 1. Section 73-2-1 is amended to read:
42	73-2-1. State engineer Term Powers and duties Qualification for duties.
43	(1) There shall be a state engineer.
44	(2) The state engineer shall:
45	(a) be appointed by the governor with the advice and consent of the Senate;
46	(b) hold office for the term of four years and until a successor is appointed; and
47	(c) have five years experience as a practical engineer or the theoretical knowledge,
48	practical experience, and skill necessary for the position.
49	(3) (a) The state engineer shall be responsible for the general administrative
50	supervision of the waters of the state and the measurement, appropriation, apportionment, and
51	distribution of those waters.
52	(b) The state engineer may secure the equitable apportionment and distribution of the
53	water according to the respective rights of appropriators.
54	(4) The state engineer shall make rules, in accordance with Title 63G, Chapter 3, Utah
55	Administrative Rulemaking Act, consistent with the purposes and provisions of this title,
56	regarding:

57	(a) reports of water right conveyances;	
58	(b) the construction of water wells and the licensing of water well drillers;	
59	(c) dam construction and safety;	
60	(d) the alteration of natural streams;	
61	(e) geothermal resource conservation;	
62	(f) enforcement orders and the imposition of fines and penalties;	
63	(g) the duty of water; and	
64	(h) standards for written plans of a public water supplier that may be presented as	
65	evidence of reasonable future water requirements under Subsection 73-1-4(2)(f).	
66	(5) The state engineer may make rules, in accordance with Title 63G, Chapter 3, Uta	h
67	Administrative Rulemaking Act, consistent with the purposes and provisions of this title,	
68	governing:	
69	(a) water distribution systems and water commissioners;	
70	(b) water measurement and reporting;	
71	(c) groundwater recharge and recovery;	
72	(d) wastewater reuse;	
73	(e) the form, content, and processing procedure for a claim under Section 73-5-13 to	
74	surface or underground water that is not represented by a certificate of appropriation;	
75	(f) the form and content of a proof submitted to the state engineer under Section	
76	73-3-16;	
77	(g) the determination of water rights; or	
78	(h) the form and content of applications and related documents, maps, and reports.	
79	(6) The state engineer may bring suit in courts of competent jurisdiction to:	
80	(a) enjoin the unlawful appropriation, diversion, and use of surface and underground	
81	water without first seeking redress through the administrative process;	
82	(b) prevent theft, waste, loss, or pollution of surface and underground waters;	
83	(c) enable the state engineer to carry out the duties of the state engineer's office; and	
84	(d) enforce administrative orders and collect fines and penalties.	
85	(7) The state engineer may:	
86	(a) upon request from the board of trustees of an irrigation district under Title 17B,	
87	Chapter 2a, Part 5, Irrigation District Act, or another local district under Title 17B, Limited	

88	Purpose Local Government Entities - Local Districts, or a special service district under Title		
89	17D, Chapter 1, Special Service District Act, that operates an irrigation water system, cause a		
90	water survey to be made of the lands proposed to be annexed to the district in order to		
91	determine and allot the maximum amount of water that could be beneficially used on the land,		
92	with a separate survey and allotment being made for each 40-acre or smaller tract in separate		
93	ownership; and		
94	(b) upon completion of the survey and allotment under Subsection (7)(a), file with the		
95	district board a return of the survey and report of the allotment.		
96	(8) (a) The state engineer may establish water distribution systems and define the water		
97	distribution systems' boundaries.		
98	(b) The water distribution systems shall be formed in a manner that:		
99	(i) secures the best protection to the water claimants; and		
100	(ii) is the most economical for the state to supervise.		
101	(9) The state engineer may conduct studies of current and novel uses of water in the		
102	state.		
103	Section 2. Section 73-2-1.7 is enacted to read:		
104	73-2-1.7. Water for power study.		
105	(1) As used in this section:		
106	(a) "Coal gasification" means the process of using a gasifier to convert coal into		
107	synthesis gas which can then be converted to hydrogen.		
108	(b) "Electrolysis" means the process of using electricity to split water into hydrogen		
109	and oxygen.		
110	(c) "Steam methane reforming" means the process of chemical synthesis to use a		
111	catalyst to produce hydrogen from methane derived from natural gas.		
112	(d) "Water cycle" means the biogeochemical cycle that describes the continuous		
113	movement of water on, above, and below the surface of the earth.		
114	(2) The state engineer shall commission a study to determine the quantitative impacts		
115	to the state's water cycle from:		
116	(a) electrolysis;		
117	(b) the generation of electricity by burning as fuel hydrogen resulting from electrolysis;		
118	<u>and</u>		

119	(c) the generation of electricity by burning as fuel a blend of natural gas and hydrogen.
120	(3) The study shall compare the quantitative impacts to the water cycle to generating
121	electricity by:
122	(a) burning coal;
123	(b) burning natural gas;
124	(c) solar energy;
125	(d) wind energy;
126	(e) burning a combination of hydrogen and natural gas; and
127	(f) burning hydrogen produced from:
128	(i) electrolysis;
129	(ii) coal gasification; and
130	(iii) steam methane reforming.
131	(4) The impacts quantified in Subsections (3)(e) and (f) shall include the quantitative
132	impacts to the water cycle of:
133	(a) burning the hydrogen; and
134	(b) producing the hydrogen from fuel through:
135	(i) electrolysis;
136	(ii) coal gasification; and
137	(iii) steam methane reforming.
138	(5) The study described in Subsection (3) shall describe factors that influence the
139	findings described in Subsection (3), including efficiency of the power.
140	(6) The state engineer shall report the findings of the study described in Subsection (3)
141	to the Public Utilities, Energy, and Technology Interim Committee and to the Legislative Water
142	Development Commission on or before November 1, 2022.
143	Section 3. Section 73-5-17 is enacted to read:
144	73-5-17. River distribution accounting report.
145	(1) As used in this section:
146	(a) "Natural flow" means the computed amount of water available within a defined
147	portion of a river system.
148	(b) "River system" means a portion of a natural stream and its tributaries where
149	regulation and accounting are required.

150	(2) The state engineer may conduct a review of distribution and accounting procedures
151	on a river system in the state.
152	(3) After conducting the review described in Subsection (2), the state engineer shall
153	provide a report identifying:
154	(a) actively administered:
155	(i) water rights;
156	(ii) diversions; and
157	(iii) reservoirs;
158	(b) accounting practices, including:
159	(i) computation of natural flow;
160	(ii) apportionment of natural flow to individual water rights;
161	(iii) storage delivery and loss of storage;
162	(iv) accounting for imports and exports; and
163	(v) system losses including:
164	(A) conveyance losses; and
165	(B) reservoir losses;
166	(c) recommendations for:
167	(i) additional measurement and automation; and
168	(ii) refinement of distribution or accounting practices in accordance with:
169	(A) existing water rights;
170	(B) the prior appropriation doctrine; and
171	(C) relevant court decrees; and
172	(d) the data and computations relied upon to provide the information described in
173	Subsections (3)(a) through (c).
174	(4) The state engineer shall make the report described in Subsection (3) available to the
175	public on the Division of Water Rights website annually at least one week prior to the annual
176	distribution system meeting.
177	Section 4. Appropriation.
178	The following sums of money are appropriated for the fiscal year beginning July 1,
179	2022, and ending June 30, 2023. These are additions to amounts previously appropriated for
180	fiscal year 2023. Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures

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1st Sub. (Buff) H.B. 393

181	Act, the Legislature appropriates the following sums of money from the funds or accounts	
182	indicated for the use and support of the government of the state of Utah.	
183	ITEM 1	
184	To Division of Water Rights - Water Rights Administration	
185	From General Fund, One-time	\$230,000
186	Schedule of Programs:	
187	Water for Power Study \$150,000	
188	River Distribution Accounting Report \$80,000	
189	From General Fund	<u>\$150,000</u>
190	Schedule of Programs:	
191	River Distribution Accounting Report \$150,000	